

1. A benzamidoxime derivative of the formula I

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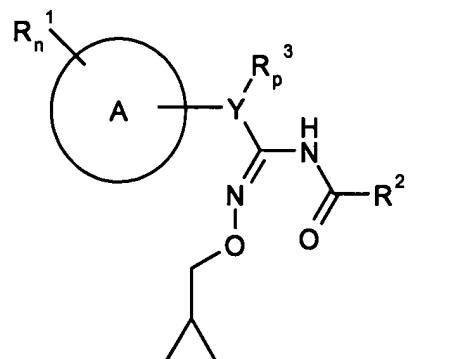
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where:

A is an aryl or hetaryl radical from the group consisting of phenyl, pyridyl and thienyl;

Y is a straight-chain or branched C₁-C₄-alkylene group, where one carbon can be replaced by oxygen, nitrogen or sulfur or by a cyclopropyl group;

R_n¹ are one to five identical or different radicals from the group consisting of: hydrogen, halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkoxyalkoxy;

R² is phenyl-C₁-C₆-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the phenyl ring, or

is thienyl-C₁-C₄-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the thienyl ring, or

is pyrazolyl-C₁-C₄-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the pyrazole ring,

R_p³ are one to five identical or different radicals from the group consisting of: hydrogen, halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-

alkylthio, C₁-C₄-alkoxyalkoxy, C₁-C₆-alkylcarbonyl;

n is 0-5;

5 p is, depending on the number of free valencies, 0-4.

2. A benzamidoxime of the formula I as claimed in claim 1 where A is phenyl.

10 3. A benzamidoxime of the formula I as claimed in claim 1 where A is pyridyl.

4. A benzamidoxime of the formula I as claimed in claim 1 where Y is a carbon.

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5. A benzamidoxime of the formula I as claimed in claim 1 where R_n¹ are one to five identical or different radicals from the group consisting of: hydrogen, halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkoxyalkoxy.

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6. A benzamidoxime of the formula I as claimed in claim 1 where

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R² is phenyl-C₁-C₆-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the phenyl ring, or

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is thienyl-C₁-C₄-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the thienyl ring, or

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is pyrazolyl-C₁-C₄-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the pyrazole ring.

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7. A benzamidoxime of the formula I as claimed in claim 1 where R_p³ are one or two identical or different radicals from the group consisting of: hydrogen, halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkoxyalkoxy.

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8. A benzamidoxime of the formula I as claimed in claim 7 where R_p³ are hydrogen or C₁-C₄-alkyl.

9. A benzamidoxime of the formula I as claimed in claim 1 where:

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A is an aryl or hetaryl radical from the group consisting of phenyl, pyridyl and thienyl;

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R_n¹ are one to five identical or different radicals from the group consisting of: hydrogen, halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkoxyalkoxy;

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R² is phenyl-C₁-C₆-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the phenyl ring, or

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is thienyl-C₁-C₄-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the thienyl ring, or

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is pyrazolyl-C₁-C₄-alkyl, which may carry one or more substituents selected from the group consisting of halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy and C₁-C₄-haloalkoxy on the pyrazole ring,

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R_p³ are one or two identical or different radicals from the group consisting of: hydrogen, halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkoxyalkoxy;

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n is 0-5;

p is 0-2.

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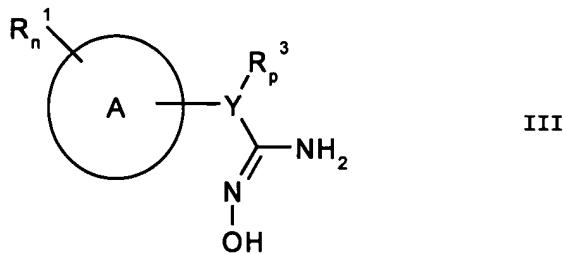
p is 0-2.

10. The use of amidoximes of the formula III

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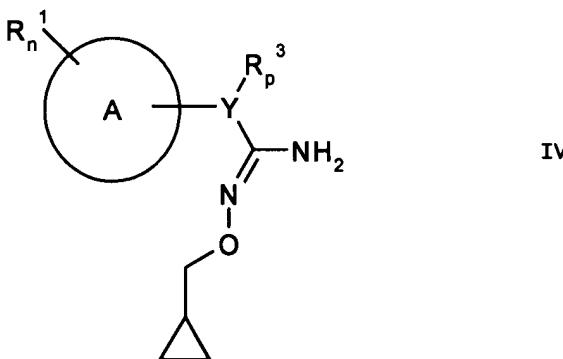
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where R_n^1 and R_p^3 are as defined in claim 1, for preparing amidoxime derivatives of the formula I.

11. An amidoxime derivative of the formula IV

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where R_n^1 and R_p^3 are as defined in claim 1.

12. The use of compounds of the formula IV as claimed in claim 11 for preparing benzamidoxime derivatives of the formula I.

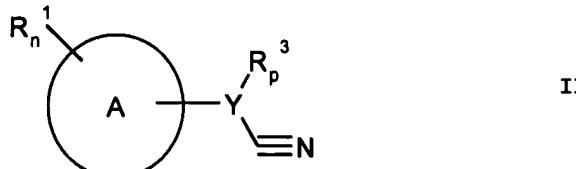
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13. The use of the benzamidoxime derivatives of the formula I as claimed in claim 1 for controlling harmful fungi.

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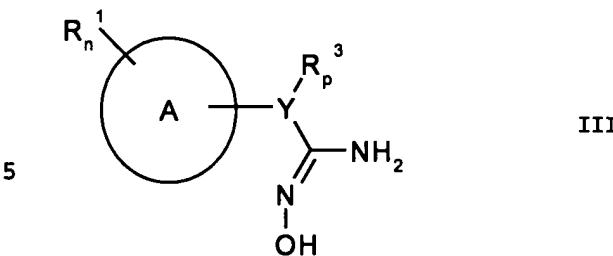
14. A process for preparing the benzamidoxime derivatives of the formula I as claimed in claim 1, which comprises reacting benzonitriles of the formula II

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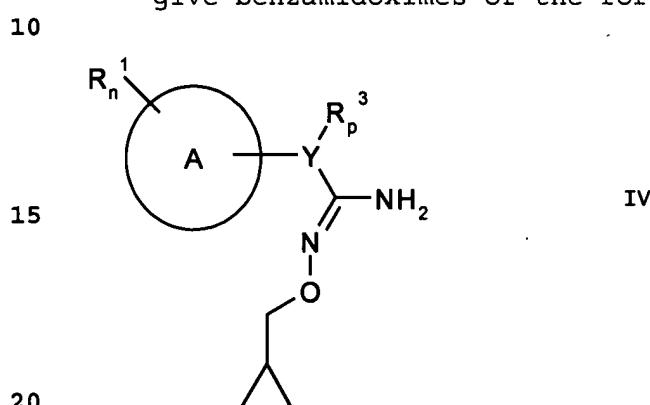


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with hydroxylamine or salts thereof in aqueous solution, preferably at a pH greater than 8, to give benzamidoximes of the formula III



10 which are then alkylated using a cyclopropylmethyl halide to give benzamidoximes of the formula IV



20 which are subsequently converted, using an appropriate acyl halide, into benzamidoxime derivatives of the formula I.

25 15. An agrochemical composition, comprising a fungicidally effective amount of at least one benzamidoxime derivative of the formula I as claimed in claim 1 and, if appropriate, agriculturally utilizable auxiliaries or additives.

30 16. A method for controlling harmful fungi, which comprises treating the harmful fungi, their habitat or the plants, areas, materials or spaces to be kept free from them with a fungicidally effective amount of a compound of the formula I or a fungicidal composition comprising a benzamidoxime derivative of the formula I as claimed in claim 16.

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